

tgacctgctt	ccatgctgca	tctgctgctt	tttgtgttga	tgggactcag	aatcatgag	1260
aaaggtcttc	agtgatccat	gactgcaaca	aattcttttc	ctaattgtgc	cgtatattat	1320
gcccctcaat	acaacttact	aatctctgcc	tcagtttctc	catctgtgaa	agtgggtgtaa	1380
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<210> 5393
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 <212> DNA
 <213> Homo sapiens

<400> 5393						
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cttcagtggg	ttgtggaaga	gagaatctga	tgattcatgc	cctcctaccc	tgtagaatt	180
aggacagggg	atggcagacc	ctaaacatac	atgtgaactg	agcaaagatt	gcctttgctt	240
cacctattga	cacatttaag	aacctcggtt	tatagagagt	acggagtggg	gtctgagatt	300
ctacatttct	tacaagttcc	tggtttatgc	cagttctggt	tgtctggtca	ccacacttct	360
gaatagcaag	gtttcagagg	actctatgaa	gtttttatatt	ctcaaaaatt	tggttaggt	420
acatctttac	atacagtggg	gctagatatt	attctttcag	aacttaacca	tgcaacaatg	480
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<210> 5394
 <211> 565
 <212> DNA
 <213> Homo sapiens

<400> 5394						
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cttcagtggg	ttgtggaaga	gagaatctga	tgattcatgc	cctcctaccc	tgtagaatt	180
aggacagggg	atggcagacc	ctaaacatac	atgtgaactg	agcaaagatt	gcctttgctt	240
cacctattga	cacatttaag	aacctcggtt	tatagagagt	acggagtggg	gtctgagatt	300
ctacatttct	tacaagttcc	tggtttatgc	cagttctggt	tgtctggtca	ccacacttct	360
gaatagcaag	gtttcagagg	actctatgaa	gtttttatatt	ctcaaaaatt	tggttaggt	420
acatctttac	atacagtggg	gctagatatt	attctttcag	aacttaacca	tgcaacaatg	480
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<210> 5395
 <211> 240
 <212> DNA
 <213> Homo sapiens

<400> 5395						
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aggctgaggc	aggagaatgg	tgtgaaccca	ggagacggag	cttgcaatga	gccgagatcg	180
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<210> 5396
 <211> 1275
 <212> DNA
 <213> Homo sapiens

<400> 5396

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gatatttaaa	ttatttgtat	acacacacac	acacacacac	acaçacacac	acacgtatct	180
gtacctagaa	atgtttatag	gggaggtcag	ttttctgaag	attaaatgca	gccctaattgt	240
cagattaatg	ttataaacac	atcgtttaat	cacaagtttt	cagagagcag	gctccacaga	300
tagtctctaa	ctttctatca	ttacaaattcg	ctatttttat	atcattgcta	atttaaataa	360
taaagtaaat	tatgaaggag	aatcaattgg	tgcaagtcac	catgggagtt	tagtccttgt	420
gaaatataaa	agcatttaaa	taatttgtat	tcttttacca	ttttttatta	catctcttta	480
atttttgtca	cttgaatata	ttaggatgat	gatgatacta	taatcactgg	aacaaagaca	540
tttgcttgga	catcttttct	tttttcccc	atttttgttc	tgtaataaat	ttttaactat	600
agcttttcct	ttcttgtcct	tatctgtccc	ttatcgatca	tagatagttt	cactactatt	660
tttaagtttt	tattgttaaa	ttgaagatga	atctgtacag	ttacttgtga	attaagatgc	720
agctaagtta	aaatcaagta	taattttgaa	gctgatttta	catttaacta	gatgattaaa	780
tatatatttt	cagggtgctt	ttcaatttta	atcaagtttt	atggtttcag	caaaatttag	840
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aatgagtaga	gtatcccaa	catccagatg	cttctcaaaa	tagcatttcc	ggccggggcg	960
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aattagccgg	gcgtagtggc	gggcgcctgt	agtcccagct	acttgggagg	ctgaggcagg	1140
agaatagcgt	gaaccgggga	ggcggagctt	gcagtgagcc	gagatcccg	cactgcactc	1200
cagcctgggc	gacagagcga	gactccgtct	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1260
aaaaaaaaaa	aaaaa					1275

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<210> 5397
<211> 242
<212> DNA
<213> Homo sapiens
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<210> 5398
<211> 90
<212> DNA
<213> Homo sapiens
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<210> 5399
<211> 181
<212> DNA
<213> Homo sapiens
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<210> 5400
<211> 142

<212> DNA
 <213> Homo sapiens

<400> 5400
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 aggtggagct tgcagtgagc cgagattgtg ccactgaact ccagcctggg cgacagagcg 120
 agactctgtc tcaaaaaaac aa 142

<210> 5401
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 5401
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 gcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaaaccca tctctactaa 120
 aaatacaaaa aattagccag gcgtgggtggc ggggtgcctgt agtcccagct actcgggagg 180
 ctgaggccag agaatggcgt gaacccggga ggcgagctt ccagtgagcc gagatcatgc 240
 cactgcactc cagcctgggc aacagagcga gactccgtct caaaaaacaa aacaa 295

<210> 5402
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 5402
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 ggatcatgag gtcaggagat cgagaccatc ctggctaaca cagtgaaacc ccgcctctac 120
 taaaaatata aaaaattagc cgggcgtggt ggcgggcgcc tgtagtccca gctactcggg 180
 aggctgaggc gggagaatgg cgtgaacccg ggaggcggag cttgcagtga gccgagatcg 240
 cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaagaaa 300
 aaaaaaaaaa agagcaca 319

<210> 5403
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 5403
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 cgggcggatc acgaggtcag gagatcgaga ccatcctggc taacacggtg aaaccccgtc 120
 tctactaaaa atacaaaaaa ttagccgggc gtggtagcgg gcgcctgtag tcccagctac 180
 tcgggagggt gaggcaggag aatggcgtga acctggcagg cgagccttgc agtgagccga 240
 gatcgcgcca ctgcactcca gcctgggtga cagagcgaga ctccgtctca aaaaaaaaaa 300
 aaaaaaaaaa gaattc 316

<210> 5404
 <211> 102
 <212> DNA
 <213> Homo sapiens

<400> 5404
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 ccatctcaaa aaaaaaaaaa aaaaaaaaaa aaactaataa tc 102

<210> 5405

<211> 322
 <212> DNA
 <213> Homo sapiens

<400> 5405
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 ggccgaggcg ggcggatcac gaggtcagga gatcgagacc atcccggcta aaacggtgaa 120
 acccgtctc tactaaaaat acaaaaaatt agccgggcgt agtggcgggc gcctgtagtc 180
 ccagccactt gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgagc 240
 cgagccgaga tcccgccact gcactccagc ctgggcgaca gagcgagact ccatctcaaa 300
 aaaaaaaaaa aaaaaaaaaa aa 322

<210> 5406
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 5406
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 acacggtgaa acccgtctc tactaaaaat accaaaaatt agccgggcgt ggtagcgggc 120
 gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg 180
 gagcttgagc tgagccgaga tcgcgccact gcactccagc ctgggcgaca gagcgagact 240
 ccgtctcaaa aaaaaaaaaa aaagaaaaga aaaaaaaaaa aaaaga 286

<210> 5407
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 5407
 gggcgcggtg gctcacgcct gtaatcccag cactttggga ggccgaggcg ggcggatcac 60
 gaggtcagga gatcgagacc atcccagcta aaacggtgaa acccgtctc tactaaaaat 120
 acaaaaaatt agccgggcgt agtggcgggc acctgtagtc ccagctactt gggaggctga 180
 ggcaggagaa tggcgtgaac ccgggaggcg gagcttgagc tgagccgaga tcccgccact 240
 gcactccagc ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 300
 agaaa 305

<210> 5408
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 5408
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 atcgagacca tcctggccaa cacggtgaaa ccccatctct actaaaaata caaaaaatta 120
 gccgggcgtg gtggcaggca cctgtagtcc caactacttg ggaggctgag gcaggagAAC 180
 agcgtgtacc caggaggcgg agcttgagc gagccaagat tgcgccactg cactccagcc 240
 tgggcgacag agggagactc cgtctcaaaa aaaaaaaaaa aaga 284

<210> 5409
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 5409
 aatttgttca attcggccgg gcgcggtggc tcacgcctgt aatcccagca ctttgggagg 60
 ccgaggcggg cggatcacga ggtcaggaga tcgagaccat cccggctaaa acggtgaaac 120

cccgctctcta	ctaaaaatac	aaaaaattag	ccggggcgtag	tggcggggcgc	ctgtagtccc	180
agctacttgg	gaggctgagg	caggagaatg	gcgtgaaccc	gggaggcgga	gcttgacgtg	240
agccgagatc	ccgccactgc	actccagcct	gggcgacaga	gcgagactcc	gtctcaaaaa	300
aaaaaaaaaa	aatttg					316

<210> 5410
 <211> 283
 <212> DNA
 <213> Homo sapiens

<400> 5410						
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agaccatcct	ggctaacacg	gtgaaacccc	gtctctacta	aaaatacaaa	aaattagcca	120
ggcgtggtgg	cgggggcctg	tagtcccagc	tactcgggag	actgaggcag	gagaatggcg	180
tgaacccggg	aggtggagcc	tgacgtgagc	cgagatcgcg	ccactgcact	ccagcctggg	240
cgacagagcc	agactccatc	tcaaaaaaaaa	aaaaaaaaaaa	aaa		283

<210> 5411
 <211> 93
 <212> DNA
 <213> Homo sapiens

<400> 5411						
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agactctgtc	tcaaaaaaaaa	aaaaaaaaaaa	aaa			93

<210> 5412
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 5412						
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ggagatcgag	accatcctgg	ctaacacggt	gaaaccccgt	ctctactaaa	aatacaaaaa	120
attagctggg	tgtggtggcg	ggcgccctgta	gtcacagcta	cttgggagac	tgaggcagga	180
gaatggcatg	aaccgcgggag	gtgcagcttg	cagtgagcag	agatctcgcc	actgcactcc	240
agcctgggcg	acagagcgag	acttcatctc	aaaaaaaaaaa	agaaagaaag	taa	293

<210> 5413
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 5413						
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ggagattgag	accatcctgg	ctaatatggt	gaaaccccgt	ctctactaaa	aatacaaaaa	120
aattagccgg	gcgtggtggc	acacgcctgt	aatcccagct	acttaggagg	ctgaggcagg	180
agaatggtgt	gaaccgcggga	ggcggagctt	gcagtgaagc	gagttcgggc	cactgcactc	240
cggcctgggc	aacagagcga	gactccgtct	caaaaaaaaa	aaaaaaaaaaa	aaaaa	295

<210> 5414
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 5414

taaaaataca	aaaaattagc	cgggcgtagt	ggcggggcgcc	tgtagtccca	gctacttggg	180
aggctgaggg	aggagaatgg	cgtgaacccg	ggaggcggag	cttgcagtga	gcggagatcc	240
cgccactgca	ctccagcctg	ggcggcagag	cgagactccg	tctcaaaaaa	aaaaaataat	300
aataat						306

<210> 5420
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 5420						
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ggtcaggaga	tcgagacat	cctgggctaac	acggtgaaac	cccatctcta	ctaaaaatac	120
aaaaaattag	ccgggcgagg	tggcgggtgc	ctgtagtccc	agctactcgg	gaggctgagg	180
caggagaatg	gcgtgaaccc	gggaagcgga	gcttgcagtg	agccgagatt	gcgccattgc	240
actccagcct	gggtgacagc	gagactccgt	ctcaaaaaaa	aaaaaaaaaag	aagt	294

<210> 5421
 <211> 184
 <212> DNA
 <213> Homo sapiens

<400> 5421						
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aacctgggag	gcggagcttg	cagtgaagccg	agatcgcgcc	actgcactcc	agcctgggag	120
acagagcgag	agtccgtctc	aaaaaaaaaa	aaaaaaaaaag	aaagaaaaaa	gaacaaacaa	180
cagc						184

<210> 5422
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 5422						
tggttaggca	cgggtggctca	cgcctggagt	cccagcactt	tgggaggccg	aggcgggcag	60
atcacgaggt	caggagatcg	agaccatcct	ggctaacacg	gtgaaaccct	gtctctacta	120
aaaatacaaa	aaattagcca	ggcgtgggtg	cgggcgcctg	taatcccagc	tactcgggag	180
gctgaggcag	gagaatggca	tgaacccggg	aggcggagct	tgcaagtgagc	ggagatggca	240
ccactgcact	ccagcctggg	caacagagcg	agactccgtc	caaaaaaaaa	aaaaaaaaaa	300
aaaca						305

<210> 5423
 <211> 258
 <212> DNA
 <213> Homo sapiens

<400> 5423						
ccgaggcggg	cggatcacga	ggtcaggaga	tcgagacat	cctgggctaac	acggtgaaac	60
cccgtctcta	ctaaaaaaaa	caaaaaatta	gccaggcgtg	tggcggcacc	ctgcagtccc	120
agctacttgg	gaggctgagg	caagagaatg	gcgtgaaccc	ggaaggcgga	gcttgcagtg	180
agccgagatc	gcgcactgc	actccagcct	gggcgacaga	gcgagctccg	tctcaaaaaa	240
aaaaagaata	aaaatgga					258

<210> 5424
 <211> 299
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (27)

<223> n equals a,t,g, or c

<400> 5424

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tcccggctaa	aacggtgaaa	ccccgtctct	actaaaaata	caaaaaatta	gccgggcgta	120
gtggcgggcg	cctgtagtcc	cagctacttg	ggaggctgag	gcaggagaat	ggcgtgaacc	180
cgggaaggcgg	agcttgacgt	gagccgagat	cccgccactg	caactccagct	tgggcgacag	240
agcgagactc	cgtctcaaaa	aaaaaaaaaa	aaacaaaaaca	aacaaacaaa	aaaaaacaa	299

<210> 5425

<211> 147

<212> DNA

<213> Homo sapiens

<400> 5425

ggtcccagct	actcgggagg	cttaggcagg	agaatggcgt	gaaccagga	ggtggagctt	60
gcagtgagcc	gagatcgcc	caactgcact	cagcctgggc	gacagagcga	gactccatct	120
caaaaaaaaa	aaaaaaaaaa	aattgtg				147

<210> 5426

<211> 312

<212> DNA

<213> Homo sapiens

<400> 5426

acaccaggcc	gggcacggtg	gctcatgcct	gtaatcccag	caactttggga	ggccgagacg	60
ggcggatcac	gaggtcagga	gatcaagacc	aacctggcta	acacggtgaa	accccgctct	120
tactaaaaat	acaaaaaatt	agccgggctg	ggtggcggtt	tgctttttgt	cccagctact	180
cgggaggctg	aggcaagaca	atggcggtgac	cctgggaggc	ggagcttgca	gtgagctgag	240
atcgcgccac	tgactccac	cctgggtgac	agagcgagac	tccgtctcaa	aaaaaaaaaa	300
aaaaaaaaaa	aa					312

<210> 5427

<211> 169

<212> DNA

<213> Homo sapiens

<400> 5427

aaaattagcc	aggcgtgatg	gtgggtgcct	gtagtcccag	ctacttggga	ggctgaggca	60
ggagaatggc	gtgaaccag	gaggtggagc	ttgcagttag	ctgagatcgc	gccactgcac	120
tccagcctgg	gcgacagagt	gagactccat	ctcaaaaaaa	aaaaaaaga		169

<210> 5428

<211> 278

<212> DNA

<213> Homo sapiens

<400> 5428
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 gctaacatgg tgaaaccccg tctctactaa acaaaatata aaaaattagc cgggcgtgat 120
 ggcgggccc tgtggtccca gctactcggg aggctgaggc aggagaatgg catgaacccg 180
 ggaggcagag cttgcagtga gccgagatcg cgccactgca ctccagcctg ggtgacagag 240
 tgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaa 278

<210> 5429
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 5429
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 atcacgaggt caggagatcg agaccatccc ggctaaaacg gtgaaacccc gtctctacta 120
 aaaatacaaa aaattagccg ggcgtagtgg cgggcgcctg tgggtcccagc tacttgggag 180
 gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccc 240
 ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaaa ataaaaataa 300
 ataaaaaaaa agaata 316

<210> 5430
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 5430
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 gaaatcgaga ccattcctgg taacaaggta aaaccccgtc tctactaaaa atacaaaaaa 120
 ttagccaggt gtggtggcgg gcgcctgtaa tctcagctac ttgggaggct gaggcaggag 180
 aacggcgtga acctgggagg cggagcttgc agtgagccga gattgcgcca ctgcactcca 240
 gcctggggga cagaccgaga ctctgtctca aaaaaaaaaa aaaaaaaaaa aaa 293

<210> 5431
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 5431
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 tgtagtccca gctactctgg aggctgaggc aggagaatgg catgaacctg ggaggcggag 120
 cttgcagtga gccgagattg cgccactgca ctccagcctg ggtgacagag cgagactctg 180
 tctcaaaaaa aaaaaaaaaa agaaata 207

<210> 5432
 <211> 131
 <212> DNA
 <213> Homo sapiens

<400> 5432
 ggaggctgag gcaggagaat ggcgtgaacc caggaggcgg agcttgagct gagctgagat 60
 tgcgccactg cactccagcc tgggcaacag agcgagactc cgtctgaaaa aaaaaaaaaa 120
 aaaaactggt g 131

<210> 5433
 <211> 188
 <212> DNA

<213> Homo sapiens

<400> 5433

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aggctgaggc	aggagaatgg	cgtgaaccca	ggaggcggag	attgcagtga	gccgagatcg	120
caccactgca	ctccagcctg	ggcaacagag	cgagactccg	tctcaaaaaa	agaaaaaaaa	180
aagaaagt						188

<210> 5434

<211> 241

<212> DNA

<213> Homo sapiens

<400> 5434

ggcggatcac	gaggtcagga	gattgagatc	atcctggcta	acacggtgaa	accccgctctc	60
tactaaaaaa	tacaaaaaat	tagccgggcg	tgggtggggg	cgctgtagt	cccagctact	120
tgggaggctg	aggcaggaga	atgggtgtgaa	cccgggaggc	agagcttgca	gtgagctgag	180
atcatgccac	tgcactgtag	ccagggtgac	agagtgtgag	tccatctcaa	aaaaaaaaaa	240
a						241

<210> 5435

<211> 160

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (82)

<223> n equals a,t,g, or c

<400> 5435

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ggaggcggag	cttgacagtga	gntgagatcg	cgccccctgc	actccagcct	gggtgacaga	120
gcgagactct	gtctcaaaaa	aaaaaaaaaa	aaaaaaaaag			160

<210> 5436

<211> 227

<212> DNA

<213> Homo sapiens

<400> 5436

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atgaaccgg	gaggtggagc	ttgcagttag	ctgagatcgc	gccactgcac	tccagcctgg	180
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<210> 5437

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<400> 5437
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aaaaaaaa 68

<210> 5438
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<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

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atggcggtgaa cccgggagggc ggagcttgca gtgagccgag atcgcgccac tgcactccag 180
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<212> DNA
<213> Homo sapiens

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gcttgagctg agccgagatc acaccacagc actccagctt gggcgacaga gcgagactcc 240
gtctcaaaaa aaaaaaaaaa aaaaaaga 268

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<212> DNA
<213> Homo sapiens

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aaaaaaa 187

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<212> DNA
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gagaatggag tgaatccggg aggcagagct tgcagtgagc tgagatcgtg ccactgcatt 240
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<212> DNA
<213> Homo sapiens

<400> 5443
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<210> 5444
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<212> DNA
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ggagcttgca gtgagccgag atggcgccac tgcactccag cctgggagcag agagcgagac 180
tccttctcaa aaaaaaaaaa aaaaaaaaaa aagagagaaa 220

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<213> Homo sapiens

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aaagaa 306

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<212> DNA
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tgggcgacag agcgagactc cgtctcaaaa aaaaaaaaaa aaaaagactg 170

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<212> DNA
<213> Homo sapiens

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tctgtctcaa aaaaaaaaaa aaaaaagaaa a 271

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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<210> 5451
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<212> DNA
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<210> 5452
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<212> DNA
<213> Homo sapiens

[illegible]

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<213> Homo sapiens
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<213> Homo sapiens
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2515

[illegible]

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2517

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 <212> DNA
 <213> Homo sapiens

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acccgggagg	cggagcttgc	agtgagccga	gatcgcgcca	ctgcactcca	gcttggggcg	180
cagagcgaga	ctccgtctca	aaaaaaaaaa	aaaaaaaaaa	aaaagaataa		230

[illegible]

gagccgagat cccgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaga 207

<210> 5481
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 5481
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<210> 5482
 <211> 150
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<400> 5482
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 gcttgcagtg agccgagatc gcgccactgc actctagcct gggcgacaga gcgagactcc 120
 gtctcaaaaa aaaaaaaaaa aaaacaactt 150

<210> 5483
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 5483
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaca aa 162

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 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 5484
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 actaaaaata caaaaaatta gctgggcgca gtggcgggca cctgtagtcc cagctactcg 180
 ggaggctgag acaggagaat ggcgtgaacc cggggagcgg agcttgcagt gagccaagat 240
 catgccactg cactccagcc tgggcgacag agcgagactc cttctcaaaa aataaaca 300
 taaa 304

<210> 5485
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 5485

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tttactaaaa	atacaaaaaa	ttagccgggc	gtggtggcgg	gcacctgtag	tcccagctac	180
tcaggaggct	gaggcaggag	aatggtgtga	accaggagg	cagagcttgc	agtggagctga	240
gatcgtgcc	cattgcactc	caacctgggc	gacagagcaa	gattccatct	caaaaaaaaa	300
aaaaaaaaa	a					311

<210> 5486
 <211> 301
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (98)
 <223> n equals a,t,g, or c

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caggagatcg	agaccatcct	ggctaacacg	gtgaaacncc	gtctctacta	aaaatataaa	180
aaattagcca	ggcgtgggtg	tgggcgccgt	tagtcccagg	tactcaggag	gctgaggcag	240
gagaatggcg	tgaacccggg	aggcggagct	tgcagtggag	cgagatcgtg	ccactgcact	300
ccagcctggg	cgacagagtg	agactccgtc	tcaaaaaaaaa	aaaaaaaaaaa	gttattcttc	311
g						

<210> 5487
 <211> 171
 <212> DNA
 <213> Homo sapiens

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tggcggtgaa	ctggaggtgg	agcttgagtc	gagccgagat	cgcgccactg	cactccagcc	171
tgggcaacag	agcgagactc	cgtctgaaaa	aaaaaaaaaaa	aagaaataga	g	

<210> 5488
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 5488						60
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acgaggtcag	gagatcgaga	ccatcctggc	taacacgggtg	aaaccccgtc	tctactaaaa	180
atacaaaaa	tagccgggca	tggtggcatg	cacctgtagc	cccagctaca	cgggaggctg	240
aggcaggaga	atggcggtga	cccgggaggc	ggagcttgca	gtgagtcgag	atcgcgccac	300
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a						

<210> 5489
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 <212> DNA
 <213> Homo sapiens

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ggggaggctg	aggcaggaga	atggcatgaa	cccgaggaggc	agagcttgca	gtgagccgag	240
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aaaatttcag	ttgtgggctg	ggcgcggcag	ctcacgcctg	taatcccagc	actttgggag	360
gctgaggcgg	gaggatcacg	aggccaagag	atggagacca	tcctgggctaa	cacggtgaaa	420
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agtcccagct	actcgggagg	ccgaggcagg	agaatgacgt	gaacccggga	ggcggagctt	540
gcagtgaagt	gagatccccg	cactgcactc	cagcctgggc	gacagaacaa	gactccgtct	600
caaaaaaaaa	a					611

<210> 5490
 <211> 291
 <212> DNA
 <213> Homo sapiens

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ccggggcgtag	tggcgggcgc	ctgtagtccc	agctacttgg	gaggctgagt	caggagaatg	240
gcgtgaaccc	gggaggccga	gcttgtagtg	agccgagata	gcaccactgc	actccagcct	291
gggcaataga	gcgagactcc	atctcaaaaa	acaaacaaac	aaacaaacat	a	

<210> 5491
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 5491						60
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aggagatcga	gaccatcctg	gttaacacgg	tgaacccccg	tctttactaa	aaatacaaaa	180
aaaatttagcc	gggctgtgat	gtggggcgct	gtagtcccag	ctactcggga	ggttgaggca	240
ggagaatggc	gtgaaccggg	gaggcggagc	ttgcagttag	ccgagattgc	gccactgcac	300
tcccgtttgg	gccacagagc	gagactccgt	ttcaaaaaaa	aaaaaaaaaa	aaaaaaaaag	308
gaacaaga						

<210> 5492
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 5492						60
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aggctgaggc	aggagaatgg	catgaccccc	ggaggcagag	cttgtagtga	gccgagatca	300
caccactgca	ctccagcctg	ggcgacaaa	tgagactccg	tctcaaaaaa	aaaaaaaaaa	303
aag						

<210> 5493
 <211> 267
 <212> DNA
 <213> Homo sapiens

<400> 5493						60
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ggctgaggca	ggagaatggc	gtgaacccgg	taggcggagc	ttgcagttag	ccgagattgc	240
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aaaaagaaaa gaaaagaaaa gaaaaaac

267

<210> 5494
<211> 129
<212> DNA
<213> Homo sapiens

<400> 5494	
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cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	120
aaacaaaga	129

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<211> 311
<212> DNA
<213> Homo sapiens

<400> 5495	
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tactaaaaat acaaaaaatt agctgggcgt ggtggcgggt gcctgtagtc ccagctactc	180
gggaggctga ggcaggagaa tggcgtgaac ccgggaggca gagcttacag tgagccgaga	240
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<210> 5496
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<212> DNA
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ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaga	180
tcagaaaaaa ata	193

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<212> DNA
<213> Homo sapiens

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aggctgaggc aggagaaatgg cgtgaacctg ggagggcgag cttgcagtga gccgagattg	180
tgtcactgca ctccagcccc ggtgacagag cgagactcca tctcaaaaaa aaaaaaaaaa	240

<210> 5498
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<212> DNA
<213> Homo sapiens

<400> 5498	
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<210> 5499
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 <212> DNA
 <213> Homo sapiens

<400> 5499						
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gtctgaaatc	aaggggttca	cagaaccaca	ctcctccaaa	tcctgtaaaa	aaaattccgt	300
ttcttgccct	ttccggctcc	tgatagtggg	gggttttcct	tacctgaggg	gggcatcact	360
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<400> 5500						
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<210> 5501
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 <212> DNA
 <213> Homo sapiens

<400> 5501						
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 <211> 307
 <212> DNA
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 <211> 2925
 <212> DNA
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cctgggctgac	agagcgagac	tccgtctcaa	aaacaacaac	aacaaaacaa	aacacca	297

<210> 5529
 <211> 108
 <212> DNA
 <213> Homo sapiens

<400> 5529						
ctgaggcagg	agaatggcgt	gaacccagaa	ggcggagctt	gcagttagcc	aagatcgtgc	60
cactgcactc	cagcctgggc	gacagagcga	gactccatct	caaaaaaa		108

<210> 5530
 <211> 312
 <212> DNA
 <213> Homo sapiens

<400> 5530						
gtcctggggc	gggcgcgggt	gctcacgcct	gtaatcccag	cactttggga	ggccgaggcg	60
ggcgatcac	gaggtcagga	gatcgagacg	atcccggcta	aaacggtgaa	accccgctct	120
tactaaaaat	acaaaaaatt	agccgggcgt	agtggcgggc	gcctgtagtc	ccagctactt	180
gggaggctga	ggcaggagaa	tggcgtgaac	ccgggaggcg	gagcttgtag	tgagccgaga	240
tcccgcact	gcactccagc	ctgggggaca	gagcgagact	ccgtctcaaa	aaaaaaaaaa	300
aaaaagactg	tc					312

<210> 5531
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 5531

gcctgtagtc	ccagctactc	gggaggctga	ggcaggagaa	tggcatgaac	ccaggaggcg	60
gagcttgacg	tgagcagaga	tcgcgccact	gcactccagc	ctgggcaaca	gagcgagact	120
ctgtctcaga	aaaaaaaaa	aaaaagaaaa	aagaaaaat			158

<210> 5532
 <211> 298
 <212> DNA
 <213> Homo sapiens

<400> 5532						
ttgggcccggg	cgcagtggtc	cacgcctgtc	atcccagcac	tttgggaggc	cgagacgggt	60
ggatcacgag	gtcaggagat	cgagaccatc	ctggcctaaca	cggtgaaacc	ccgtctctac	120
taaaaatata	aaaaattagc	cgggcgtgtt	ggcgggcgcc	tgtagtccca	gctactcggg	180
aggctgaggc	aggagaatgg	cgtgaacccg	ggaggcggag	cttgacagca	gcggaaatcg	240
caccactata	ctccaggctg	ggggacagaa	cgagacccca	tctcaaaaaa	aaaaagaa	298

<210> 5533
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 5533						
aggctcaggag	atggagacca	tcctgggctaa	catggtgaaa	ccccgtctct	actaaaaata	60
caaaaaatta	gccgggcgtg	gtggcaggcg	cctgtagtcc	cagctactcg	ggaggctgag	120
gcaggagaat	ggcgtgaatc	cagggtggagc	ttgcagttag	ctgagatcgc	gccactgcac	180
tccagcctgg	gtgacagagt	gagactccat	ctcaaaaaaa	aaaaaaaaaa	aaaaaga	237

<210> 5534
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 5534						
ggctggggcgc	ggtgggtcac	gcctatgatc	ccacactttg	ggaggccgag	gtggggcggat	60
catgagggtca	ggagatcgag	accatcctgg	ctaatacggc	gaaaccccg	ctctactaaa	120
atacaaaaaa	ttagccgggc	gtggtggcgg	gtgcctgtag	tcccactact	cgggaggctg	180
aggcaggaga	atggcgtgaa	cccaggaggc	agagccttga	gtgagcggag	atcatgccac	240
tgcactccag	cctgggtgac	agagcaagac	tccatctcaa	aaaaaaaaaa	aaagaa	296

<210> 5535
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 5535						
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gggcggatca	cgaggtcagg	agatcgagac	catcctggct	aacatggtga	aacctgtct	120
ctactaaaaa	tacaaaaaaa	attagccggg	tgtggtggcg	agtgcctgta	gtcccagcta	180
ctccagaggc	tgaggcagga	gaatggcatg	aaccggggag	gcagagcttg	cagttagccg	240
agatcgtgcc	actgcacttg	agcctggggc	acagagcaag	actccatctc	aaaaaaaaaa	300
aaaaaaaaaa	a					311

<210> 5536
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 5536
gcttggaggc tcatgcctgt aatcccagca ctttgggagg ccgaggcggg cggatcacaa 60
ggtcaggaga tcgagacat cctgggtaac acggtgagac cctgtctcta ctaaaaatac 120
aaaaaattag ccaggcgtgg tggcggggcg ctgtagtccc agctactcgg gaggctgagg 180
caggagaatg gcgtgaaccc gggagcggag ttgcagttag ccgagatcgc gccactgcac 240
tccagccccg gcaacagagc gagactctgt ctcaaaaaaa aaaaaaaaaa agct 294

<210> 5537
<211> 303
<212> DNA
<213> Homo sapiens

<400> 5537
aaggaggccg ggcgcggtgg ctacgcctg taatcccagc actttgggag gccaaggagg 60
gcggatcacg aggtcaggag atcgagacca tcctgggtaa cacagtgaac ccctgtctct 120
actaaaaata caaaaaacta gctgggcatg gtggcggatg cctgtagccc cagctacttg 180
ggaggctgag gcaggagaat ggcgtgaacc cgggaggcgg aggttgcagt gagcggagat 240
tgcgccactg cactccagcc tgggggacag agccagactc cgtctaaaaa aaaaaaaaaa 300
aaa 303

<210> 5538
<211> 191
<212> DNA
<213> Homo sapiens

<400> 5538
aaaaaacaaa aaattagccg ggcgtagtgg cgggcgcctg tagtcccagc tacttgggag 60
gctgaggcag gagaatggcg tgaacccggg aggcggagct tgcagtgagc cgagatcccc 120
ccactgcact ccagcctggg cgacagagcg agactccgtc tcaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaagt a 191

<210> 5539
<211> 193
<212> DNA
<213> Homo sapiens

<400> 5539
cgggcgtggt agcggggcgcc tgtagtccca gctactcggg aggctgaggc aggagaatgg 60
cgtgaacccg ggaggcggag cttgcagtga gccgagatcg cgccactgca ctccagcctg 120
ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattgac 180
tcctaataca aaa 193

<210> 5540
<211> 195
<212> DNA
<213> Homo sapiens

<400> 5540
aaatacaaaa attagccggg cgtagtggtg ggcgcctgta gtcccagcta ctcgaggaggc 60
tgaggcagga gaatggcgtg aaccggggag gcggagcttg cagtgagccg agatccccgc 120
actgcactcc agcctggggc acagagcgag actccgtctc aaaaaaaaaa aaaaaaaga 180
taattctaac aaaca 195

<210> 5541
<211> 281

<212> DNA
<213> Homo sapiens

<400> 5541
cacttttggga ggccgagggc ggccggtatcac gaggtcagga gatcgagacc atcctgggcta 60
acacgggggaa acccgtctc tactaaaaat acaaaaaatg agccggggcgc ggtggcgggc 120
gcctgtgggc ccagctactc gggaggctgg ggcaggagaa tggcgcgaaac ccgggagggc 180
gagcttgagc tgagccgaga tcgcccacc gcactccagc ctgggcgaca gagcgagact 240
ccgtctcaaa aaaaaaaaaa agaaaaagaa aaaggacaac a 281

<210> 5542
<211> 301
<212> DNA
<213> Homo sapiens

<400> 5542
atagccgggc gcggtggctc atgcctgtaa tcccagcact ttgggaggct gaggtgggca 60
gatcacgagg tcaggaaatc gagaccatcc tggctaacac ggtgaaaccc catctctact 120
aaaaaatata aaaaattagc cgggcgtggg ggtgggtgcc tgtagtccca gctactcagg 180
aggctgaggg aggagaatgg tgtgaacccg ggagggtggag cttgcagtga gccgagatcg 240
cgccactgca ctccagcctg ggcgacagaa caagactccg tctcaaaaat aaataaataa 300
a 301

<210> 5543
<211> 310
<212> DNA
<213> Homo sapiens

<400> 5543
agccggggcgc ggtgggtcac gcctgcaatc ccagcacttt gggaggccaa ggccgggcaga 60
tcacaagggtc aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa 120
aaatacaaaa acaaaactag ccgggcttgg tgggtgggcgc ctgtagtccc agctactcaa 180
gaggctgagg caggagaatg gcgtgaactc gggaggcgga gcttgcaatg agccgagatc 240
gcgccactgc actccagcct gggcgacaga gcgagactcc gtctcaaaaa aaaaaaaaaa 300
aaaaaaaaaa 310

<210> 5544
<211> 297
<212> DNA
<213> Homo sapiens

<400> 5544
gtgcggtggc tcacgcctgt aatcccagca ctttgggagg ccaagccggg cggatcatga 60
ggtcaggaga tcgagaccat cctggctaac acggtgaaac cctgtctcta ctaaaaatac 120
aaaaaattag ccgggcgtgg tggcggggtgc ctgtagtccc agctactcgg gaggccgagg 180
caggagaatg gtgtgaaccc gggagggtgga gcttgcaatg agccgagatc gggccactgc 240
actccagcct gggcgacaga gcaagactct gtctcaaaaa aaaaaaagaa atggaaa 297

<210> 5545
<211> 182
<212> DNA
<213> Homo sapiens

<400> 5545
tactaaaaat acaaaaagtt agccggggcga agtggcgggc gcctgtagtc ccagctactc 60
gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgagc tgagccgaaa 120
tcgcgccact gcactccagc ctgggtgaca gagcgagact ccgtctcaaa aaaaaaaaaa 180

aa

182

<210> 5546
<211> 303
<212> DNA
<213> Homo sapiens

<400> 5546
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ggatcatgag gtcaggagat cgagaccatc ctggctaaca cggtgaaacc cagtctctac 120
taaaaataca aaaaattagc tgggtgtgct ggaggcatc tgtagtccca actactcggg 180
aggctgaggc gggagaatgg catgaacctg ggaggcggag cttgcagtga gccgagatca 240
cgccactgca ctccagcctg ggcgacagag tgagactacc tctccaaaaa aaaaaaaaaa 300
aaa 303

<210> 5547
<211> 297
<212> DNA
<213> Homo sapiens

<400> 5547
gggcgcgggtg gctcacgtct gtaatcccag cactttggga ggccgagggg ggcggatcac 60
gatgtcagga gatcgagacc atcctggcta acatggtgaa accctgtctc tgctaaaaat 120
acaaaaaatt agcagggcgt ggtggcgggc gcgtgtagtc ccagctactc aggaggctga 180
ggcaggagaa tggagtgaac ccaggaggcg gacgtgcagt gagccgagat cgcgccactg 240
cactccagcc tgggcgacag agcaagactc cgtctcaaaa aaaaaaaaaa aaaaaaa 297

<210> 5548
<211> 323
<212> DNA
<213> Homo sapiens

<400> 5548
aaaaaactat ttttcggccg ggggggggtgg atcacgcctg taatcccagc actttggggag 60
gccgaggcgg gcagatcacg aggtcaggag atcgagacca tcctggctaa cacgggtgaaa 120
ccccgtctct actaaaaaaaa caaaaaatta gccgggcgtg gtagcgggag cctgtagtcc 180
cagctactcg ggaggctgag gcaggagaat ggcgtgaacc cgggaggcgg agcttgcagt 240
gagccgagat cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa 300
aaaaaaaaaa aaaaaaacia aaa 323

<210> 5549
<211> 277
<212> DNA
<213> Homo sapiens

<400> 5549
ataagtcact ttgggaggcc gagacgggcg gatcacgagg tcaggagatg gagaccatcc 60
tggctaacac ggtgaaaccc cgtctctact aaaaatacaa aaaaattagc cgggcgtagt 120
ggcgggcacc tgtagtccca gctactccgg aggctgaggc aaggagaatg gcgtgaacct 180
gggaggcggg gcttgcagtg agccgagatg gcgcccactgc actccagcct ggggtgatgga 240
gcgagacttg tctcaaaaaa aaaaaaaaaa agaataa 277

<210> 5550
<211> 303
<212> DNA
<213> Homo sapiens

<400> 5550
gccgggctg gtggctcac cctgtaatcc cagcactttg ggaggctgag gcaggcggat 60
cacaagggtca ggagatcgag accatcctgg ctaacacggg gaaaccctc tctactaaaa 120
atacaaaagaa ttagccgggt gtgggtggcg acgcctgtag tcccagctac tcgggaggct 180
gaggcaggag aatggcggga acccgggagg cagagcttgc agtgagccaa gatcgtgcca 240
ctgcactcca gcctgggtga cagagcgaga ctccacctca aaaaaaaaaa aaaaaaaaaa 300
gaa 303

<210> 5551
<211> 309
<212> DNA
<213> Homo sapiens

<400> 5551
cctgtaatcc cagcactttg ggaggccgag gcgggaggat cacaagggtca ggagatcgag 60
accatcccggt ctaaaacggg gaaaccctg ctctactaaa aatacaaaaa attagccggg 120
cgtagtggcg ggcgcctgta gtcccagcta cttgggaggc tgaggcagga gaatggcgtg 180
aaccggggag gctgagcttg cagtgagccg agatcccgcc actgcactcc agcctgggag 240
acagagcgag actccgtctc aaaaaataaa aataaaaaata aaaaataata ataaaaataa 300
aaaaataaaa 309

<210> 5552
<211> 310
<212> DNA
<213> Homo sapiens

<400> 5552
ggacgggagc ggtgggtcac gcctgtaatc ccagcacttt gggaggccga ggcgggaggga 60
tcacgaggtc aggagatcga gaccatcccg gctaaaacgg tgaaaccctg tctctactaa 120
aaatacaaaa aattagccgg gcgtagtggc gggcgctgt agtcccagct acttgggagg 180
ctgaggcagg agaattggcg gaaccgggga ggcggaggtt gcagtgagcc gagatcccg 240
cactgcactc cagcctgggc gacagagcga gactccgtct caaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaat 310

<210> 5553
<211> 247
<212> DNA
<213> Homo sapiens

<400> 5553
aggccgaggc gggcggatca cgaggtcagg agatcgagac caacctggct aacacagtga 60
aaccctgtct ctacaaaaat acaaaaaatt agccgggggt agtggcgggc gcctttagt 120
cccagctact tgggaagctg aggcaggaga atggcatgaa ccaggaggc ggagcttgca 180
gtgagccgag atcgaccac tgcactccag cctgggagc acagcaagac tccgtctcaa 240
aaaaaaa 247

<210> 5554
<211> 175
<212> DNA
<213> Homo sapiens

<400> 5554
ccaaaaatta gccgggctg gtggcgggag cctgtagtcc cagctactcg ggaggctgag 60
gcaggagaat ggcgtgaacc cgggaggcgg agcttgagc gagctgagat cgcgccattg 120
cactccagcc tgggcgacag agccagactc agtctccaaa aaaaagaaga aaaga 175

<210> 5555
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 5555
 actgtcttag gccaggcgtg gtggctcacg cctataatcc cagcactttg ggaggccaag 60
 gtgggaggat cagcagggtca ggagatcgag accatcctgg ctaacacggt gaaaccccgt 120
 ctctgctaaa aatacaaaaa attagccggg catggtggcg ggcgctgta gtcccagcta 180
 ctccggaggc tgaggcagga gaatggcgtg aaccaggag gcgcagcttt cagtgaagccg 240
 agatcgcgcc actgcactcc agcctgggag acagagctaa actccgtctc aaaaaacaaa 300
 acaaaacaaa a 311

<210> 5556
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 5556
 gaaaaattta gccgggagtg gtggcgggcg catgtagtcc cggctactcg ggaggctgag 60
 gcaggagaat ggcggtgaacc cgggaggcg agcttgacgt gagccgagat ggcgccactg 120
 cactccagcc tgggagacag agcgagactc cgtctcaaaa aaaaaaaaaa aaataataat 180
 gaa 183

<210> 5557
 <211> 292
 <212> DNA
 <213> Homo sapiens

<400> 5557
 tggctcaagc ctgtaatccc agcacttttg gaggtcgagg cgggcggatc acgaggctcag 60
 gagatcgaga ccatcctggc taacacgggtg aaacctgtgc tctactaaaa atacaaaaat 120
 tagccgggca tagtggcggg cgctgtagt cctagctact cgggaggctg aggcaggaga 180
 atggcggtgaa cccgggaggt ggagcttgca gtgagctgag attgcgccac tgcactccag 240
 cctgggtgac agagttagac tccgtctcaa aaaaaaaaaa aaaattaaaa aa 292

<210> 5558
 <211> 93
 <212> DNA
 <213> Homo sapiens

<400> 5558
 gagctggcag tgagccgaga tcccggcact gcactccagc ctgggagaca gagcgagact 60
 ccgtctcaaa aaaaaaaaaa aaaaaaaaga aaa 93

<210> 5559
 <211> 287
 <212> DNA
 <213> Homo sapiens

<400> 5559
 ttgtaatccc agcacttttg gagggccagg cgggcggatc acaaggctcag gagatcgaaa 60
 ccatcctggc tgacacgggtg aaaccccgtc tctactaaaa atacaaaaaa atggccgggt 120
 gtggtggcga gcacctgcct gtagtcccag ctactcggga ggctgaggca ggagaatggc 180
 ttgaacccgg gagggcgagc ttgcagttag ccgagatcgc gccactgcac tccagcctag 240
 gcgacagagc aagactccct ctccaaaaaa aaaaaaaaaa aaaaaaa 287

<210> 5560
 <211> 136
 <212> DNA
 <213> Homo sapiens

<400> 5560
 ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga ttgtgccact 60
 gcactccagc ctggggcgaca gaggtagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaa 136

<210> 5561
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (18)
 <223> n equals a,t,g, or c

<400> 5561
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 acacggtgaa acccgtctc tactaaaaat acaaaaaaat tagccgggcg tgggtggcggg 120
 cgcctgtagt ccagctact cgggaggctg aggcaggaga atggcgtgag ccggggaggc 180
 ggagcttgca gtgagcggag atcgcgccac cgcacttcag cctgggcgac agagcaagac 240
 tcttgtctca aaaaaaaaaa aaaaaagtgg cag 273

<210> 5562
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 5562
 cgggcgcggt ggctcacgcc tgtaatccca gcacttgggg aggccgaggc gggcgggatca 60
 cgatgtcagg agatcgatac catcctggct aacacggtga agcccatct ctactaaaaa 120
 tacaaaaaat tatccgggcg tgggtggcggc cgcctgtagt ccagctact cgtgaggctg 180
 aggcaggaga atggcatgaa ccggggaggc ggagcttgcc gtgagccgag attgcgccac 240
 tgcactccag cctgggcgac agagccagac tccgtctcaa aaacaaacaa acaaaa 296

<210> 5563
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 5563
 agggccgggc gcggtggctc atgcctgtaa tcccagcact ttgggaggcc gaggcgggcg 60
 gatcacgagg tcaggagatc gagaccatcc tggctaactt ggtgaaaccc cgtctctact 120
 aaaagtacaa ataaaaaatt agccgggctg ggcggtgggc gcctgtagtc ccagctactc 180
 gggaggctga ggcaggagaa tggcgtgaac ccgggaggcg gagcttgcag tgagccgaga 240
 ttgcgccact gcactccagc ctggggcgaca cagcaagact ccgtctcaaa aaaaaaagtt 300
 gaaaagct 308

<210> 5564
 <211> 138
 <212> DNA

5565-5568

<213> Homo sapiens

<400> 5564
cgaggagctg aagcaggaga atggcgtgaa cccaggaagc ggagcttgca gtgagccgag 60
attgcgccac tgcactccag cctgggtgac agagccagac tcggtctcaa aaaaaaaaaa 120
aaaaaaaaaa aaaagaaa 138

<210> 5565
<211> 243
<212> DNA
<213> Homo sapiens

<400> 5565
tcacgaggtc aggagatcga gaccatcctg gctaacacgg tgaaaccccg tctctactaa 60
aaatccaaaa aattagccgg gcgtgggtgt gggcgctgt agtcccagct actcgggagg 120
ctaaggcaga agaatggcag gaacctggga ggcgagctt gcagtgagcc gagatcacgc 180
cactgcactc cagcctgggc gacagagcga gactccgtct caaaaaaaaaa aaaaaaaaaa 240
att 243

<210> 5566
<211> 296
<212> DNA
<213> Homo sapiens

<400> 5566
gcgcggtggc tcaagcctgt aatcccagca ctttgggaaa ccgaggcggg tggatcacaa 60
ggtcaggaga tcgagaccat cctgggctaac acggtgaaac cccatctcta ctaaaaata 120
caaaaaaact tagccgggtg tggtagcggg cgctgtagt cccagctact caggaggctg 180
aagcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag atcgcgccac 240
tgcactccag cctgggggac agagcgagac tccatctcaa aaaaaaaaaa aaaaaa 296

<210> 5567
<211> 202
<212> DNA
<213> Homo sapiens

<400> 5567
ctactaaaaa tacaaaaaat tagccgggagc tggtagcggg cgctgtagt cccagctact 60
cgaggagctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca gtgagccgag 120
atcgcgccac tgcactccag cctgagtgac agagcgagac tccgtctcaa aaaaaaaaaa 180
aaaaaaaaag gttaatatgt aa 202

<210> 5568
<211> 248
<212> DNA
<213> Homo sapiens

<400> 5568
gaggtggatg gatcatgagg tcaggagatc gagaccatcc tggctaacac agtgaaaccc 60
cgtctctact aaaaatacaa aaaattagcc aggcgtgatg gcgggcgcct gtagtcccag 120
ctactcggga ggctgaggca ggagaatggc gggaacctgg gaggcggagc ttgcagtgag 180
ccaagatcgc gccactgcac cccagcctgg gtgacagagc gagactccgt ctcaaaaaaa 240
aaaaagaa 248

<210> 5569
<211> 192

<212> DNA

<213> Homo sapiens

<400> 5569

aatacaaaaa	attagccggg	cgtagtggcg	ggcgccctgta	gtcccagcta	cttgggagggc	60
tgaggcagga	gaatggcggtg	aaccggggag	gcagagcttg	cagtgagccg	agatcccggc	120
actgcactcc	agcctggggc	acagagcgag	actccgtctc	aaaaaaaaaa	aaaaaaaaag	180
aagtagacaa	aa					192

<210> 5570

<211> 320

<212> DNA

<213> Homo sapiens

<400> 5570

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tcaggagatt	gagaccatcc	tggttaacac	ggtgaaaccc	cgtctctact	aaaaatacaa	120
aaaaattagc	cgggcgtggt	ggcggggcacc	tgtagtccca	gctactcagg	aggctgagac	180
aggagaatgg	cgtgaacccg	ggaggcagag	cttgcaagtga	gccgagattg	caccactgca	240
ctccagcctg	ggcaacagag	caagactccg	tctcaaaaaa	aaaaaagaaa	aaagaaaaga	300
aaagaaaaga	aaacgaagtc					320

<210> 5571

<211> 274

<212> DNA

<213> Homo sapiens

<400> 5571

atgcctgtaa	tcccacactt	tgggaggccg	aggcaggcgg	atcacgaggt	caggagatcg	60
agaccatcct	ggctaacacg	gtgaaaccct	ttctctacta	aaaatacaaa	aaattagccg	120
ggcgtgggtg	cggtcgcccc	tagtcccagc	tactcgggag	gctgaggcag	aagaatggcg	180
tgaacctggg	aggcagagct	tgcagtgagc	cgagatcggg	ccactgcatt	ccagcctggg	240
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<210> 5572

<211> 308

<212> DNA

<213> Homo sapiens

<400> 5572

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aaaaatacaa	aaaattagcc	gggcgtggtg	gtgggcgcct	gtaatcccag	ctactcggga	180
ggctgaggca	ggagaatggc	atgaacccaa	gaggcgggagc	ttgcagtgag	ccgggtagatc	240
gccactgcag	tccagcttgg	gcgaaagagt	gagactccgt	ctcaaaaaaa	aaaaaaagtt	300
gaataaac						308

<210> 5573

<211> 153

<212> DNA

<213> Homo sapiens

<400> 5573

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gtgaacccgg	gaggcgggagc	ttgcagtgag	ctgagatcac	cccactgcac	tccagcctgg	120
gcgacagagt	gagactctgt	ctcaaaaaaa	aaa			153

<210> 5574
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 5574
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 gatcgagacc atcctggcta acacgggtgaa accccatctc tactaaaaat acaaaaaatt 120
 agccggggcgt ggtagcgggc gcctgtagtc ccagctactc gggaggctga ggcaggagaa 180
 tggcgtgaac ccgggaggcg gagcttgtag tgagccgaga tcgcgccact gcactccagc 240
 ctgggcgaca gagcgagact ccgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa 300

<210> 5575
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 5575
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 ctaaaaatac aaaaagttag ccgggcgtgg tggcgggagc ctgtagtccc atctactcgg 180
 gaggctgagg caggagaatg gcgtagaacc ggggaagtgg gcttgtagta agccgagatc 240
 gtgccactgc actccagtct gggcgacaga gcgagactcc gtctcagaaa ataaacaaac 300
 aaaaaatc 308

<210> 5576
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 5576
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 actctgtctc aaaaaaaaaa aagaattggc 150

<210> 5577
 <211> 279
 <212> DNA
 <213> Homo sapiens

<400> 5577
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 tggcgggagc ctgtagtccc agctacttgg gaggctgagg caggagaatg gtgtgaaccc 180
 aggaggcaga gcttgtagtg agcgagatc gggccactgc agtccagcct gggcaacaga 240
 gcaagactcc gtctcaata aaaaacaaaa caaaacaaa 279

<210> 5578
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 5578
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 tcccagctac tcgggaggct gaggcaggag aatggcgtga acccaggagg cggcttgtag 120
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aaaaaaaaaa aagcaatt

198

<210> 5579
<211> 287
<212> DNA
<213> Homo sapiens

<400> 5579
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gggcgtggta gcgggcgccct gtaatcgggg gtactccgga ggctgaggca ggagaatggc 180
gtgaacccgg gaggcggagc ttgcagttag ccgagattgc gccactgcac tccagcctgg 240
gcgacagagc gagacttcat ctcaaaaaaa aaaaaaaaaa aaaaaaa 287

<210> 5580
<211> 135
<212> DNA
<213> Homo sapiens

<400> 5580
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ccgagatcgc gccactgcac tccagcctgg atgacagagc aagactccgt ctcaaaaaaa 120
aaagaaaaaa agaca 135

<210> 5581
<211> 266
<212> DNA
<213> Homo sapiens

<400> 5581
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cctgtgggtcc cagctactcg ggaggcttag gcaggagaat ggtgtgaacc cgggaggcg 180
agcttgcagt gagccgagat cgcaccactg cactccagcc tgggcgacag agcgagactc 240
catctcaaaa aaaaagaaat aagaaa 266

<210> 5582
<211> 322
<212> DNA
<213> Homo sapiens

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atcacgaggt caggagatcg agaccatcct ggctaacacg gtgaaacccc gtctctacta 120
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aaaaaaaaaa aaaaaaaaaa tc 322

<210> 5583
<211> 250
<212> DNA
<213> Homo sapiens

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gatcgacta	ctgcactcca	gcctgggcga	cagagcgtga	ctccgtctca	aaaaaaagca	240
attagaaact						250

<210> 5584
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 5584						
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gtgagccgag	atcccgccac	tgcactccag	cctgggcgac	agagcgagac	tccgtctcaa	120
aaaaaaaaaa	aaaaaaaaatg	ga				142

<210> 5585
 <211> 40
 <212> DNA
 <213> Homo sapiens

<400> 5585						
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<210> 5586
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 5586						
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t						181

<210> 5587
 <211> 281
 <212> DNA
 <213> Homo sapiens

<400> 5587						
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atggcgggcg	cctgtagtcc	cagctactca	ggaggctaag	gcaggagaat	ggcatgaacc	180
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<210> 5588
 <211> 122
 <212> DNA
 <213> Homo sapiens

<400> 5588						
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ga						122

<210> 5589
 <211> 123
 <212> DNA
 <213> Homo sapiens

<400> 5589
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<210> 5590
 <211> 176
 <212> DNA
 <213> Homo sapiens

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<210> 5591
 <211> 270
 <212> DNA
 <213> Homo sapiens

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 tagtcccagc tactcgggag actgaggcag gagaatggcg tgaacccggg aggcggagct 180
 ttgcagttagc cgagatcgcg cccctgcact ccagcctggg cgacagagcg agactccgcc 240
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<210> 5592
 <211> 301
 <212> DNA
 <213> Homo sapiens

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 aaatacaaaa aaaattagcc gggcgtgttg gcgggtgcct gtagtcccag ctactcggga 180
 ggctgaggca ggagaatggc atgaaccagc gaggcggagc ttgcagttagc ccgagattgt 240
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 a 301

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 <211> 237
 <212> DNA
 <213> Homo sapiens

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 cccgggagggc ggagcttgca gtgagcggag atcgcgccac tgcactccag cctgggagcag 180
 tgagcaggac tccgtctcaa aaaaaaaaaa aagaaaagaa aaaaagaaag aaagaaa 237

<210> 5594
 <211> 301
 <212> DNA
 <213> Homo sapiens

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 aaaaattagc tgggcgtcgt ggcgggcgcc tgtggtccca gttactctgg aggctgaggc 180
 acgagaatgg cgtgaaccca ggaggcggag cttgcagcga gctgagatcg caccactcca 240
 ctccagcctg ggcaacagag cgagactctg tctcaaaaaa aaaaaaaaaa aaaaaaaaaat 300
 c 301

<210> 5595
 <211> 88
 <212> DNA
 <213> Homo sapiens

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 aatccatctc aaaaaaaaaa aaaaaaag 88

<210> 5596
 <211> 278
 <212> DNA
 <213> Homo sapiens

<400> 5596
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 accatcctgg ctaacatgga gaaaccctgt ctctactaaa aatacaaaaa attagccggg 120
 cgtagtggcg ggcgccctgta gtcccagcaa ctcgggaggt tgaggcagga gaatggtgtg 180
 aacctgggag gtggagcttg tagtgagcgg agatcgcgcc actgcactct agcctgggca 240
 acacagcgag actccgtctc aaaaaaaaaa aaaaaaga 278

<210> 5597
 <211> 214
 <212> DNA
 <213> Homo sapiens

<400> 5597
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 gagccgaggt cgcgccactg cactccagcc tgggcgacag agcgagactc cgtctcaaaa 180
 aaaaaaaaaa aaaaaaaaaa aagattacac aata 214

<210> 5598
 <211> 299
 <212> DNA
 <213> Homo sapiens

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 taaaaataca aaaaattagc ccgctgtggt ggcgagcgcc tgtagtccca gctacttggg 180
 aggctgaggc aggagaatgg catgaaccgg ggagggtggag cttgcagtga gccgagatca 240
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姓名	性别	年龄	籍贯	民族	文化程度	职业	住址	联系电话	电子邮箱	备注
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林二十	女	26	海南	汉族	大学	医生	海口市	15800000000	lin20@163.com	

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<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c
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<220>
<221> SITE
<222> (261)
<223> n equals a,t,g, or c
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tactaaaaat	acaaaagatt	agccggggcgt	ggtggcgggc	gcctgtagcc	ccagctactc		180
gggaggctga	ggcaggagaa	tggcgtgaac	ccgggaggcg	gagcttgca	tgagccgaga		240
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2550

<212> DNA
<213> Homo sapiens

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ctactaaaaa taccaaaaat tagctgggcg tggcggcggg cgctgtagt cctagctact 180
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aaaaaaaaaa aaagaaca 318

<210> 5603
<211> 275
<212> DNA
<213> Homo sapiens

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gactccgtct caaaaaaaaaa aaaaaaagaa aaaaa 275

<210> 5604
<211> 154
<212> DNA
<213> Homo sapiens

<400> 5604
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tctcaaaaaa aaaaaaaaaa aaaaaaaggg ccgc 154

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<211> 177
<212> DNA
<213> Homo sapiens

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<211> 187
<212> DNA
<213> Homo sapiens

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aacaatt 187

<210> 5607
<211> 307

<212> DNA
<213> Homo sapiens

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aaatttc 307

<210> 5608
<211> 166
<212> DNA
<213> Homo sapiens

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<210> 5609
<211> 1209
<212> DNA
<213> Homo sapiens

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aaaaaaaaa 1209

<210> 5610
<211> 142
<212> DNA
<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 5613

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<211> 214

<212> DNA

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<211> 1096

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA
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<213> Homo sapiens

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<211> 266

<212> DNA

<213> Homo sapiens

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<211> 2162

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

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<211> 2037

<212> DNA

<213> Homo sapiens

<400> 5728

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<211> 282

<212> DNA

<213> Homo sapiens

<400> 5729

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<211> 2098

<212> DNA

<213> Homo sapiens

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<211> 2037

<212> DNA
<213> Homo sapiens

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<211> 282
<212> DNA
<213> Homo sapiens

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<210> 5733
<211> 2852
<212> DNA
<213> Homo sapiens

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[illegible]

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<212> DNA
<213> Homo sapiens
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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 5874
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 <212> DNA
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 183

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 162

<212> DNA

<213> Homo sapiens

<400> 5915

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<212> DNA

<213> Homo sapiens

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193

<210> 5922
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<212> DNA
<213> Homo sapiens

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<210> 5924
<211> 300
<212> DNA
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<210> 5925
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 143

<212> DNA

<213> Homo sapiens

Case	Age	Sex	Occupation	Onset	Duration	Course	Outcome
1	25	M	Student	1980	10 years	Chronic	Severe
2	30	F	Homemaker	1985	5 years	Chronic	Mild
3	35	M	Teacher	1990	3 years	Chronic	Moderate
4	40	F	Nurse	1995	2 years	Chronic	Severe
5	45	M	Engineer	2000	1 year	Chronic	Mild
6	50	F	Retired	2005	6 months	Chronic	Moderate
7	55	M	Farmer	2010	4 years	Chronic	Severe
8	60	F	Homemaker	2015	2 years	Chronic	Mild
9	65	M	Teacher	2020	1 year	Chronic	Moderate
10	70	F	Nurse	2025	6 months	Chronic	Severe

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caagacattg	actctgaaaa	tatgaaacaa	aaaacttctg	ccactgttca	aaaggatgaa	180
ttgagaactt	gcacagcaga	ttcaaaagca	acagctccag	cttataagcc	aggccgtgga	240
acaggagtta	atagtaattc	tgaaaagcat	gccgatcata	gaagcacctt	gaccaagaaa	300
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<210> 6036
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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

<400> 6037

00500-00400

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<210> 6038
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 <212> DNA
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<210> 6039
 <211> 640
 <212> DNA
 <213> Homo sapiens

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acgtcaaaag	gcgaaaaac	gtctatcag	gcgatggccc	actacgtga	ccatcacc	300
aatcaagttt	tttggggtc	aggtgccgt	aagcactaaa	tcggaacc	aaaggagcc	360
ccgatttag	agcttgacg	ggaaagccg	cgaacgtgg	gagaaagg	gggaagaa	420
cgaaaggagc	gggcgctag	gcgctggca	gtgtagcgg	cacgctgcg	gtaaccacca	480
cacccgccgc	gcttaatgc	ccgctacag	gcgcgtcc	tcgccatt	ggctgcgca	540
ctgttgggaa	gggcgatcg	tgcgggcct	ttcgctatta	cgccagctg	cgaaagggg	600
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<210> 6040
 <211> 513
 <212> DNA
 <213> Homo sapiens

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gcaaggcgat	taagttgggt	aacgccaggg	ttttccagc	cacgacgttg	taaaacgacg		480
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<210> 6041
 <211> 612
 <212> DNA
 <213> Homo sapiens

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<210> 6042
 <211> 640
 <212> DNA
 <213> Homo sapiens

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<210> 6043
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 6043							
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640

<210> 6044
<211> 654
<212> DNA
<213> Homo sapiens

<400> 6044
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tcacgacggt gtaaaacgac ggccagtgaa ttgtaatac actcactata gggc 654

<210> 6045
<211> 647
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (29)
<223> n equals a,t,g, or c

<400> 6045
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<210> 6046
<211> 640
<212> DNA
<213> Homo sapiens

<400> 6046
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tagggttgag tggtgttcca gtttgaaca agagtccact attaaagaac gtggactcca 180
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caccgcgcgc gcttaatgcy ccgytacagg gcgctccat tcgccattca ggctgcgcaa 480
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<211> 639
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> n equals a,t,g, or c

<400> 6050
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atcaagtttt ttgggggtcga ggtgccgtaa agcactaaat cggaacccta aagggagccc 300
ccgatttaga gcttgacggg gaaagccggc gaacgtggcg agaaaggaag ggaagaaagc 360
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<210> 6051
<211> 648
<212> DNA
<213> Homo sapiens

<400> 6051
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aaagggggat gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcacga 600
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<210> 6052
<211> 624
<212> DNA
<213> Homo sapiens

<400> 6052
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ttaagttggg taacgccagg gttttccag tcacgacgtt gtaaaacgac ggccagtgaa 600
ttgtaatacag actcactata gggc 624

Table 1

Year	Number of cases	Percentage (%)
1970	10	0.06
1971	15	0.08
1972	20	0.10
1973	25	0.12
1974	30	0.14
1975	35	0.16
1976	40	0.18
1977	45	0.20
1978	50	0.22
1979	55	0.24
1980	60	0.26
1981	65	0.28
1982	70	0.30
1983	75	0.32
1984	80	0.34
1985	85	0.36
1986	90	0.38
1987	95	0.40
1988	100	0.42
1989	105	0.44
1990	110	0.46
1991	115	0.48
1992	120	0.50
1993	125	0.52
1994	130	0.54
1995	135	0.56
1996	140	0.58
1997	145	0.60
1998	150	0.62
1999	155	0.64
2000	160	0.66
2001	165	0.68
2002	170	0.70
2003	175	0.72
2004	180	0.74
2005	185	0.76
2006	190	0.78
2007	195	0.80
2008	200	0.82
2009	205	0.84
2010	210	0.86
2011	215	0.88
2012	220	0.90
2013	225	0.92
2014	230	0.94
2015	235	0.96
2016	240	0.98
2017	245	1.00
2018	250	1.02
2019	255	1.04
2020	260	1.06
2021	265	1.08
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<212> DNA

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<212> DNA

<213> Homo sapiens

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<211> 336

<212> DNA

<213> Homo sapiens

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